OIPE IAP28
DEC 29 2006
PATENT & TRADEMARK OFFICE

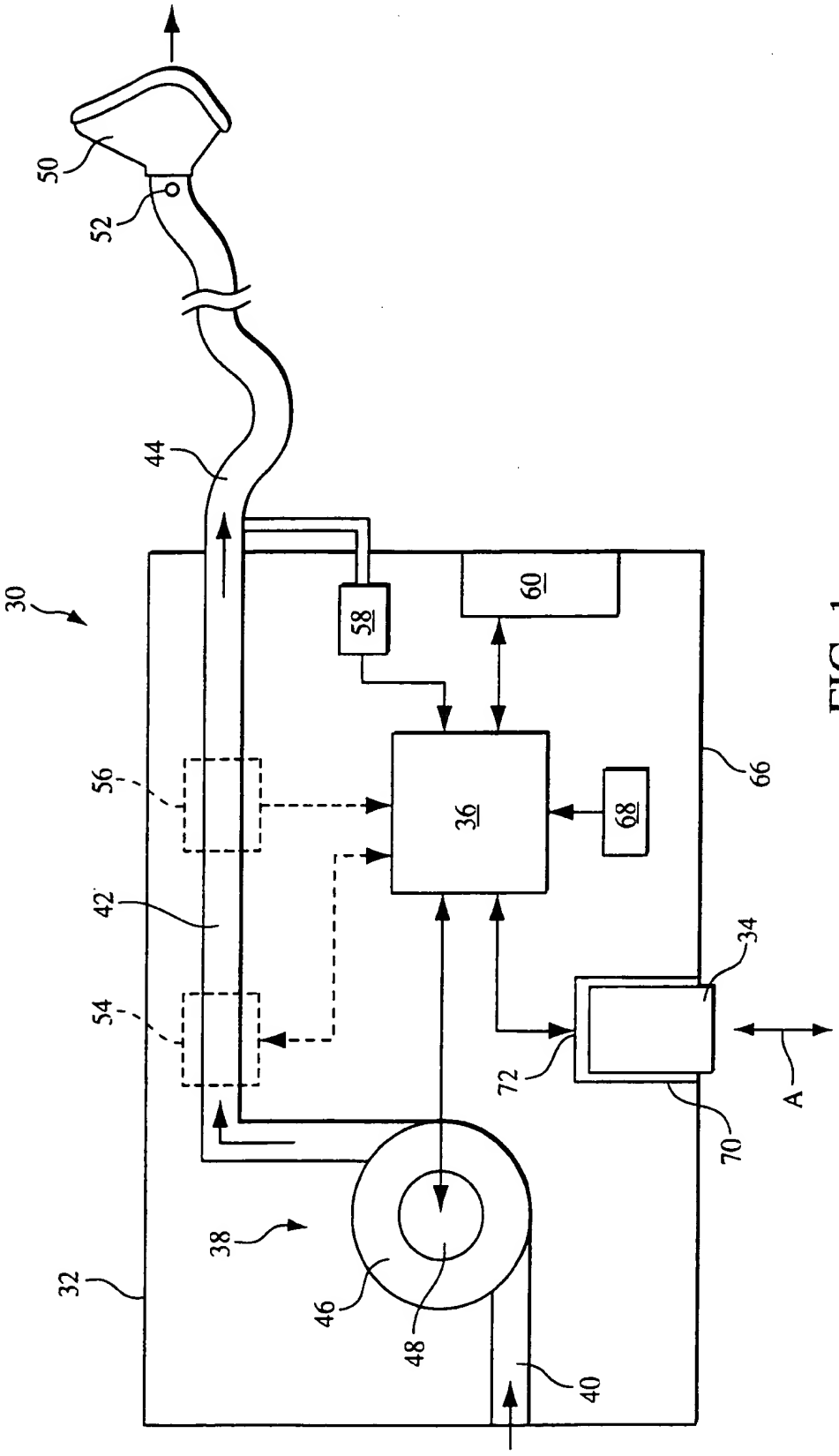

FIG. 1

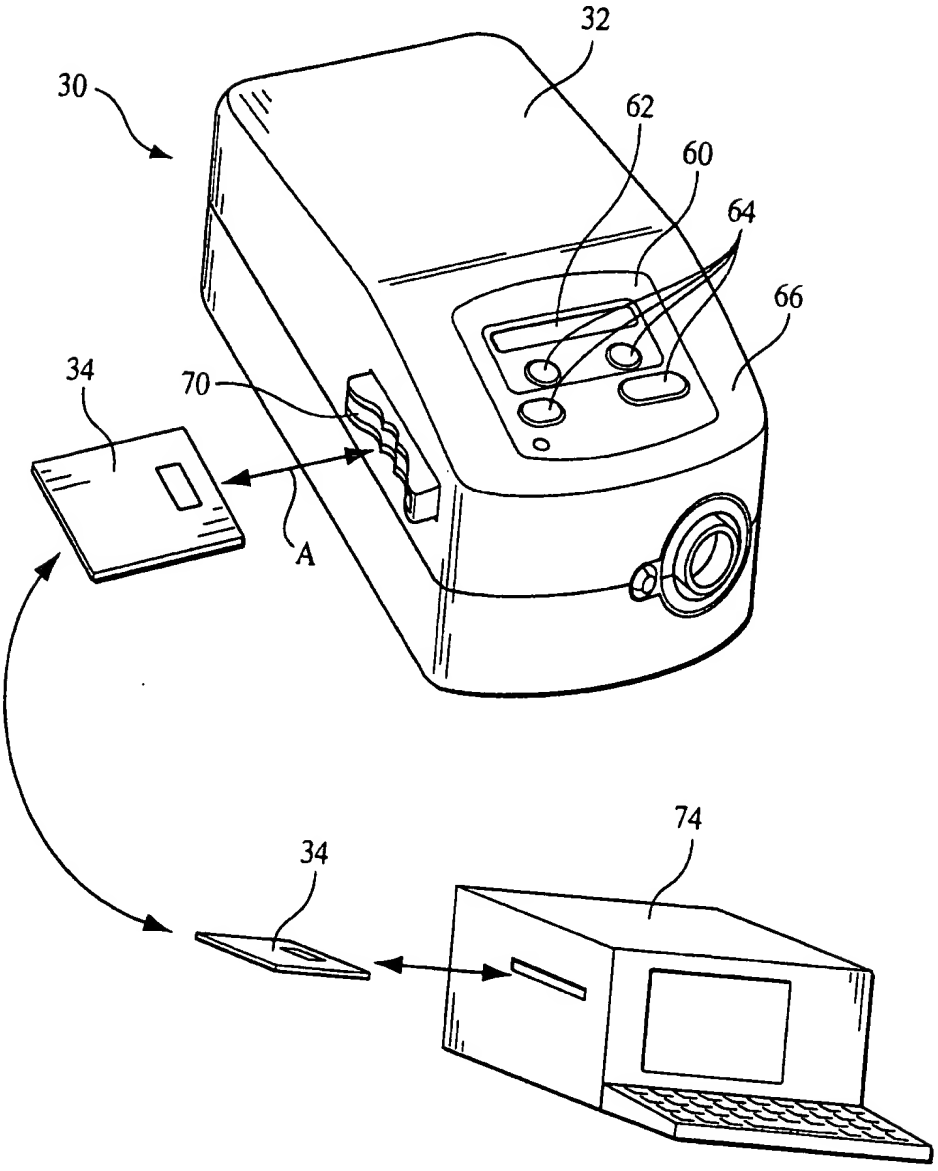

FIG. 2

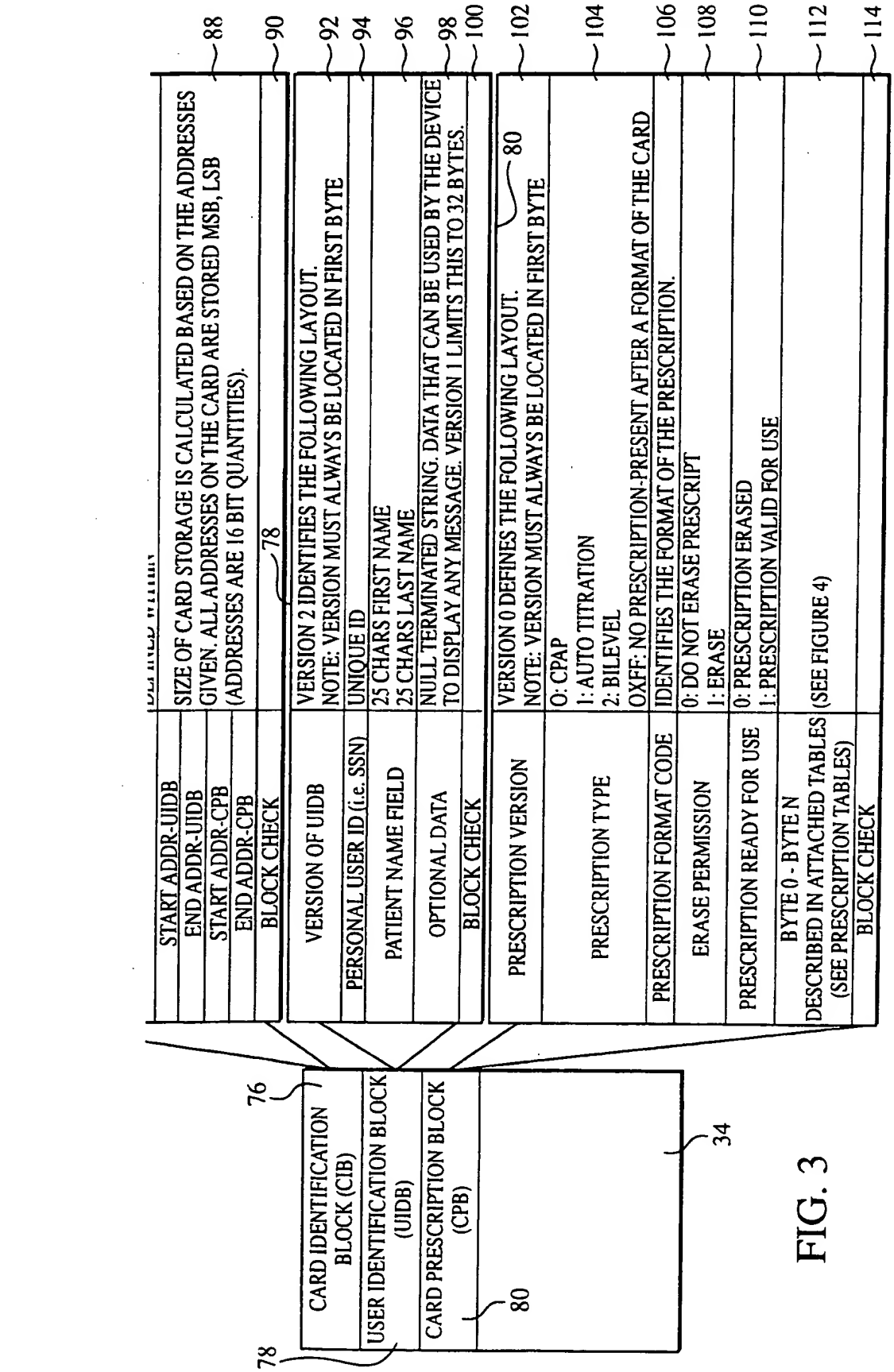
78
CARD IDENTIFICATION BLOCK (CIB)
USER IDENTIFICATION BLOCK (UIDB)
CARD PRESCRIPTION BLOCK (CPB)
80
76
34
START ADDR-UIDB
END ADDR-UIDB
START ADDR-CPB
END ADDR-CPB
BLOCK CHECK
SIZE OF CARD STORAGE IS CALCULATED BASED ON THE ADDRESSES GIVEN. ALL ADDRESSES ON THE CARD ARE STORED MSB, LSB (ADDRESSES ARE 16 BIT QUANTITIES).
78
88
90
VERSION OF UIDB
VERSION 2 IDENTIFIES THE FOLLOWING LAYOUT. NOTE: VERSION MUST ALWAYS BE LOCATED IN FIRST BYTE
92
PERSONAL USER ID (i.e. SSN)
UNIQUE ID
94
PATIENT NAME FIELD
25 CHARS FIRST NAME
25 CHARS LAST NAME
96
OPTIONAL DATA
NULL TERMINATED STRING. DATA THAT CAN BE USED BY THE DEVICE TO DISPLAY ANY MESSAGE. VERSION 1 LIMITS THIS TO 32 BYTES.
98
BLOCK CHECK
100
PRESCRIPTION VERSION
VERSION 0 DEFINES THE FOLLOWING LAYOUT. NOTE: VERSION MUST ALWAYS BE LOCATED IN FIRST BYTE
80
102
PRESCRIPTION TYPE
0: CPAP
1: AUTO TITRATION
2: BILEVEL
OXFF: NO PRESCRIPTION-PRESENT AFTER A FORMAT OF THE CARD
104
PRESCRIPTION FORMAT CODE
IDENTIFIES THE FORMAT OF THE PRESCRIPTION.
106
ERASE PERMISSION
0: DO NOT ERASE PRESCRIPT
1: ERASE
108
PRESCRIPTION READY FOR USE
0: PRESCRIPTION ERASED
1: PRESCRIPTION VALID FOR USE
110
BYTE 0 - BYTE N DESCRIBED IN ATTACHED TABLES (SEE PRESCRIPTION TABLES)
(SEE FIGURE 4)
112
BLOCK CHECK
114

FIG. 3

FIG. 4

PRESCRIPTION DEFINITIONS

CPAP PRESCRIPTION-FORMAT CODE 0 — 112a

PARAMETER	SCALE	RANGE	NOTES	
CPAP PRESSSURE	.1cmH2O	UNIT TYPE SPECIFIC CHOICE: 3-20 cmH2O	IF CPAP PRESSURE < MIN RAMP PRESSURE, THEN MIN RAMP PRESSURE = CPAP PRESSURE.	116
RAMP SHAPE	NA	0 = NONE 1 = LINEAR		118
RAMP TIME	MINUTES	0-45		120
AUTO ON	NA	0 = DISABLE 1 = ENABLE		122
AUTO OFF	NA	0 = DISABLE 1 = ENABLE		124

AUTO TITRATION PRESCRIPTION - FORMAT CODE 0 — 112b

PARAMETER	SCALE	RANGE	NOTES	
MINIMUM PRESSURE	.1cmH2O	UNIT TYPE SPECIFIC CHOICE: 3-MAX PR cmH2O	MIN PRESSURE < =MAX PRESSURE	126
MAXIMUM PRESSURE	.1cmH2O	UNIT TYPE SPECIFIC CHOICE: MIN PR-20 cmH2O	MAX PRESSURE > =MIN PRESSURE	128
AUTO ON	NA	0 = DISABLE 1 = ENABLE		122
AUTO OFF	NA	0 = DISABLE 1 = ENABLE		124

BILEVEL PRESCRIPTION - FORMAT CODE 0 — 112c

PARAMETER	SCALE	RANGE	NOTES	
IPAP PRESSURE	.1cmH2O	UNIT TYPE SPECIFIC CHOICE: EPAP-20 cmH2O	IPAP PRESSURE > =EPAP PRESSURE	130
EPAP PRESSURE	.1cmH2O	UNIT TYPE SPECIFIC CHOICE: 3-IPAP cmH2O	EPAP PRESSURE < =IPAP PRESSURE	132
RAMP SHAPE	NA	0 = NONE 1 = LINEAR 0 = BI-LEVEL		118'
RAMP TIME	MINUTES	0 - 45		120
AUTO ON	NA	0 = DISABLE 1 = ENABLE		122
AUTO OFF	NA	0 = DISABLE 1 = ENABLE		124

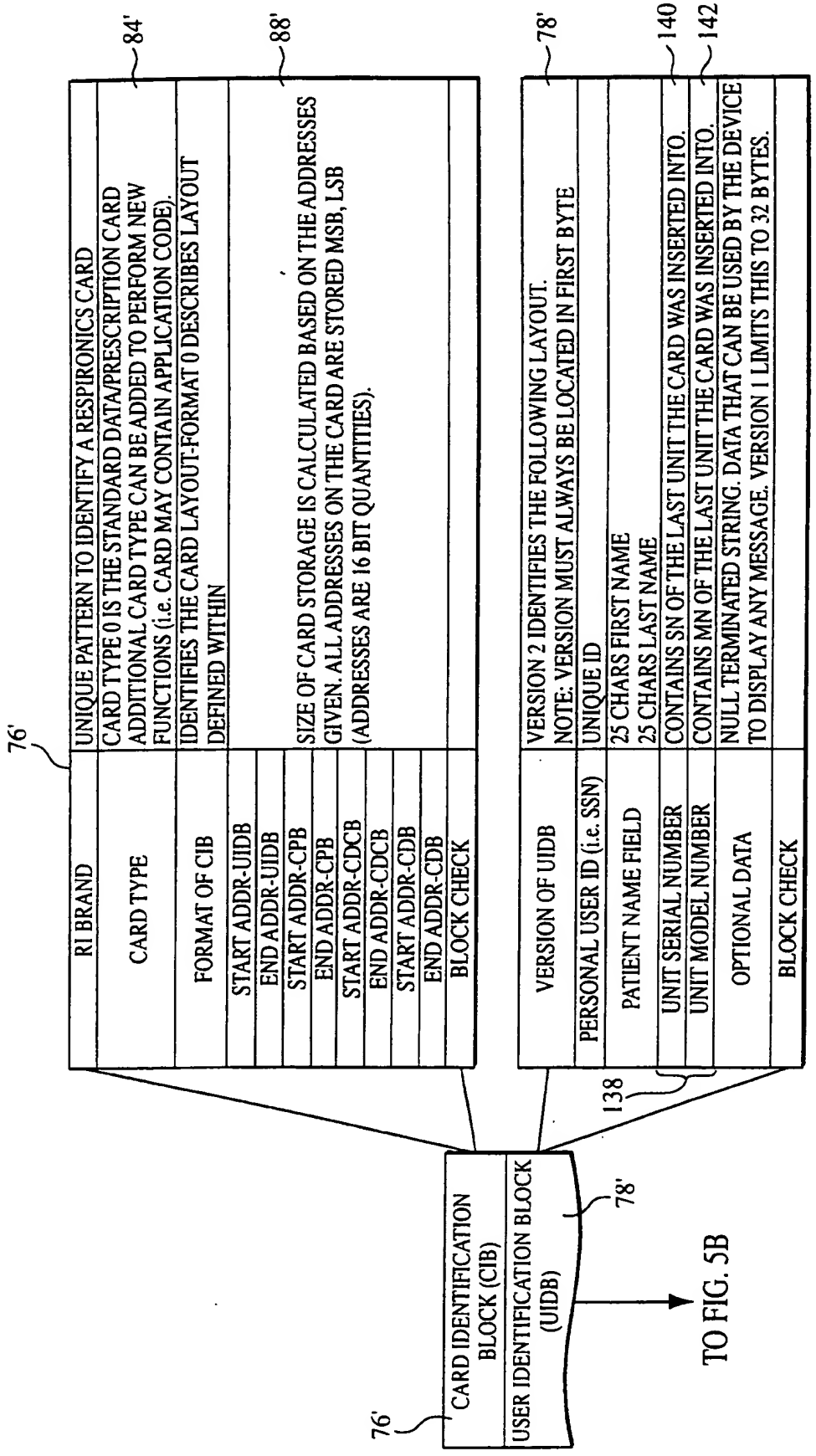
76'
RI BRAND
CARD TYPE
FORMAT OF CIB
START ADDR-UIDB
END ADDR-UIDB
START ADDR-CPB
END ADDR-CPB
START ADDR-CDCB
END ADDR-CDCB
START ADDR-CDB
END ADDR-CDB
BLOCK CHECK
UNIQUE PATTERN TO IDENTIFY A RESPIRONICS CARD
CARD TYPE 0 IS THE STANDARD DATA/PRESCRIPTION CARD
ADDITIONAL CARD TYPE CAN BE ADDED TO PERFORM NEW
FUNCTIONS (i.e. CARD MAY CONTAIN APPLICATION CODE).
IDENTIFIES THE CARD LAYOUT-FORMAT 0 DESCRIBES LAYOUT
DEFINED WITHIN
SIZE OF CARD STORAGE IS CALCULATED BASED ON THE ADDRESSES
GIVEN. ALL ADDRESSES ON THE CARD ARE STORED MSB, LSB
(ADDRESSES ARE 16 BIT QUANTITIES).
84'
88'
78'
VERSION OF UIDB
PERSONAL USER ID (i.e. SSN)
PATIENT NAME FIELD
UNIT SERIAL NUMBER
UNIT MODEL NUMBER
OPTIONAL DATA
BLOCK CHECK
VERSION 2 IDENTIFIES THE FOLLOWING LAYOUT.
NOTE: VERSION MUST ALWAYS BE LOCATED IN FIRST BYTE
UNIQUE ID
25 CHARS FIRST NAME
25 CHARS LAST NAME
CONTAINS SN OF THE LAST UNIT THE CARD WAS INSERTED INTO.
CONTAINS MN OF THE LAST UNIT THE CARD WAS INSERTED INTO.
NULL TERMINATED STRING. DATA THAT CAN BE USED BY THE DEVICE
TO DISPLAY ANY MESSAGE. VERSION 1 LIMITS THIS TO 32 BYTES.
140
142
138
76'
CARD IDENTIFICATION BLOCK (CIB)
USER IDENTIFICATION BLOCK (UIDB)
78'
TO FIG. 5B

FIG. 5A

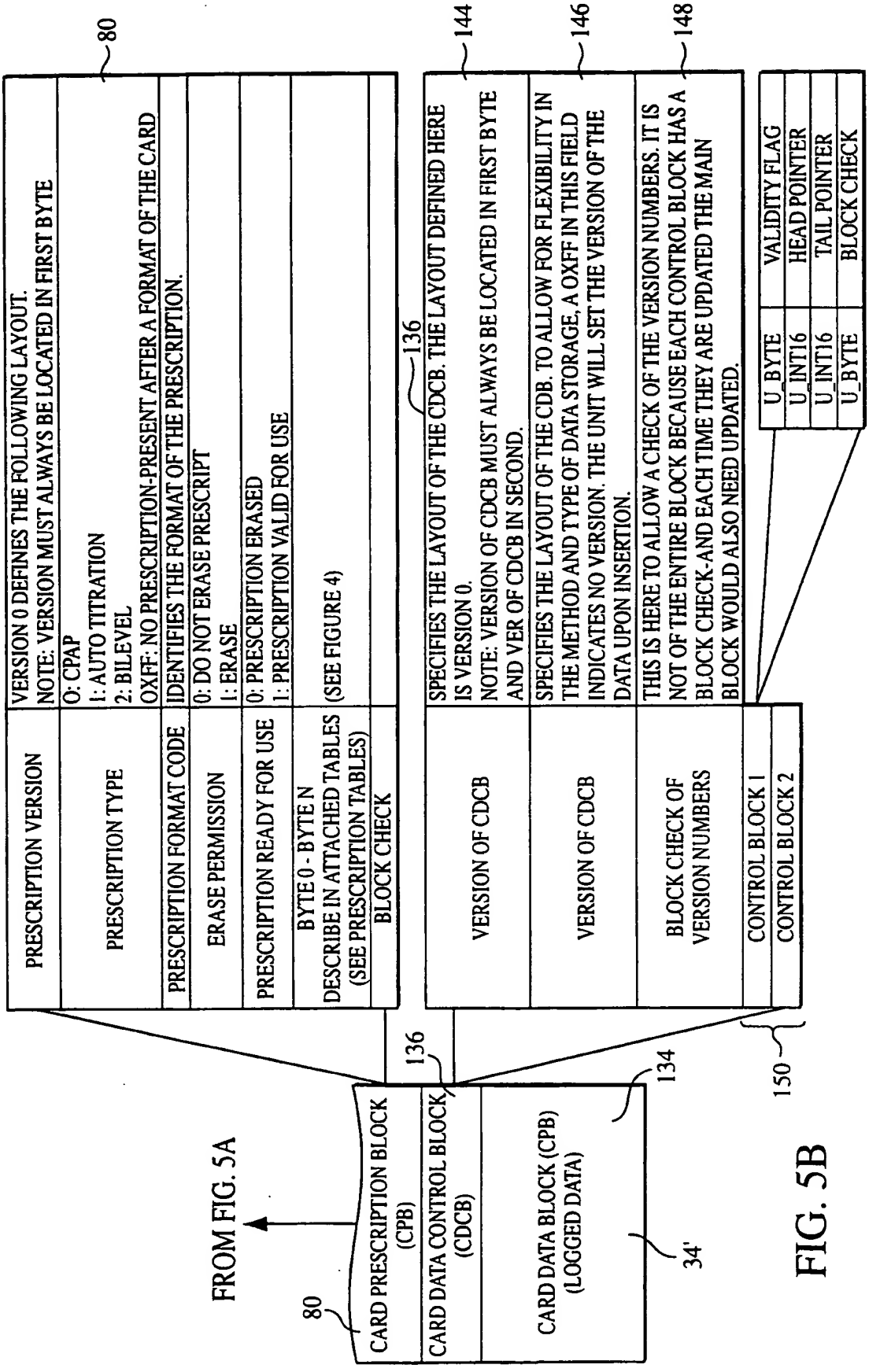
FROM FIG. 5A
80
CARD PRESCRIPTION BLOCK (CPB)
CARD DATA CONTROL BLOCK (CDCB)
CARD DATA BLOCK (CPB) (LOGGED DATA)
34'
134
136
150
80
PRESCRIPTION VERSION
VERSION 0 DEFINES THE FOLLOWING LAYOUT. NOTE: VERSION MUST ALWAYS BE LOCATED IN FIRST BYTE
PRESCRIPTION TYPE
0: CPAP
1: AUTO TITRATION
2: BILEVEL
OXFF: NO PRESCRIPTION-PRESENT AFTER A FORMAT OF THE CARD
PRESCRIPTION FORMAT CODE
IDENTIFIES THE FORMAT OF THE PRESCRIPTION.
ERASE PERMISSION
0: DO NOT ERASE PRESCRIPT
1: ERASE
PRESCRIPTION READY FOR USE
0: PRESCRIPTION ERASED
1: PRESCRIPTION VALID FOR USE
BYTE 0 - BYTE N DESCRIBE IN ATTACHED TABLES (SEE PRESCRIPTION TABLES)
(SEE FIGURE 4)
BLOCK CHECK
136
144
146
148
VERSION OF CDCB
SPECIFIES THE LAYOUT OF THE CDCB. THE LAYOUT DEFINED HERE IS VERSION 0.
NOTE: VERSION OF CDCB MUST ALWAYS BE LOCATED IN FIRST BYTE AND VER OF CDCB IN SECOND.
VERSION OF CDCB
SPECIFIES THE LAYOUT OF THE CDB. TO ALLOW FOR FLEXIBILITY IN THE METHOD AND TYPE OF DATA STORAGE, A OXFF IN THIS FIELD INDICATES NO VERSION. THE UNIT WILL SET THE VERSION OF THE DATA UPON INSERTION.
BLOCK CHECK OF VERSION NUMBERS
THIS IS HERE TO ALLOW A CHECK OF THE VERSION NUMBERS. IT IS NOT OF THE ENTIRE BLOCK BECAUSE EACH CONTROL BLOCK HAS A BLOCK CHECK-AND EACH TIME THEY ARE UPDATED THE MAIN BLOCK WOULD ALSO NEED UPDATED.
CONTROL BLOCK 1
CONTROL BLOCK 2
U_BYTE
VALIDITY FLAG
U_INT16
HEAD POINTER
U_INT16
TAIL POINTER
U_BYTE
BLOCK CHECK

FIG. 5B

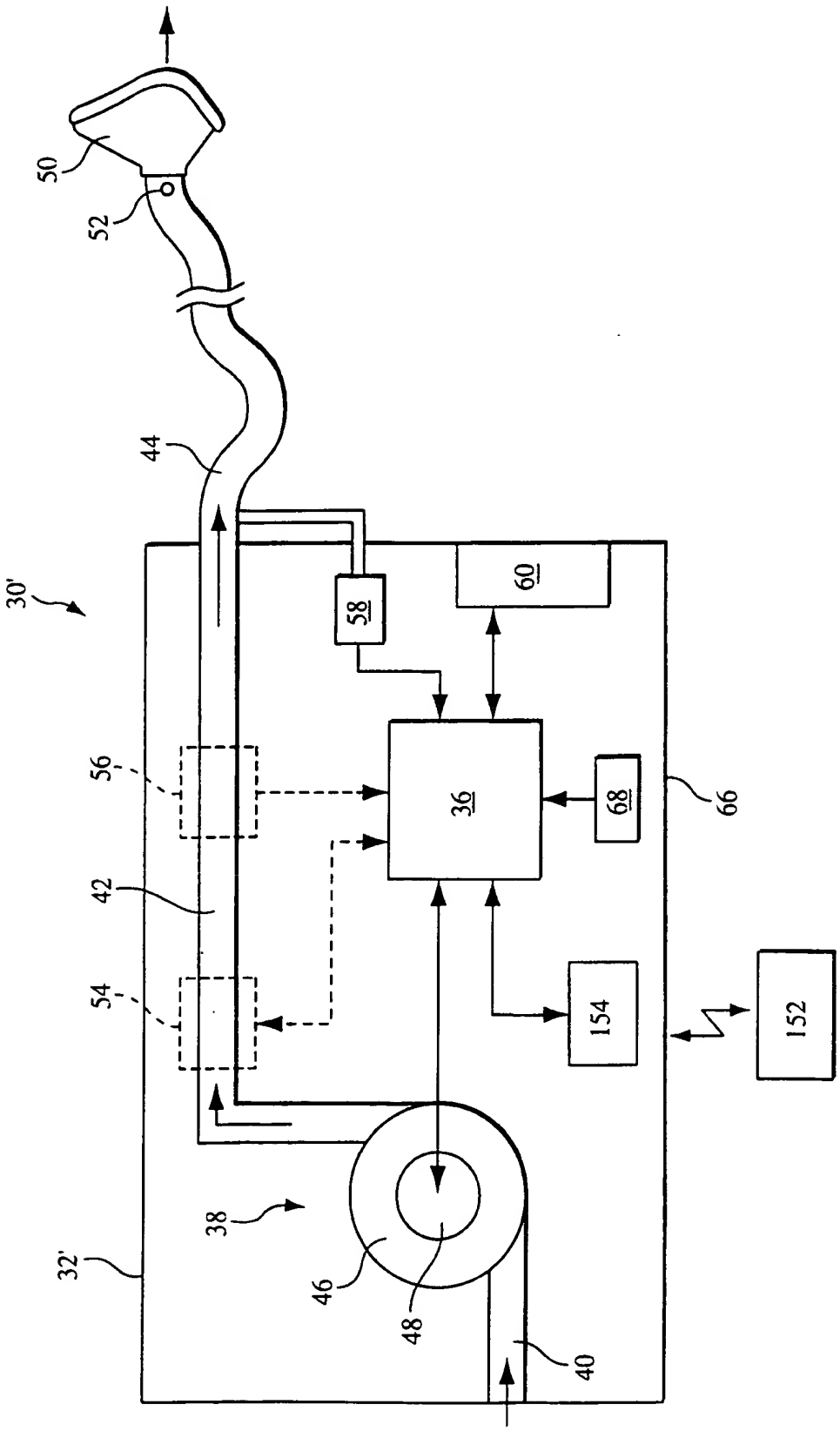

FIG. 6

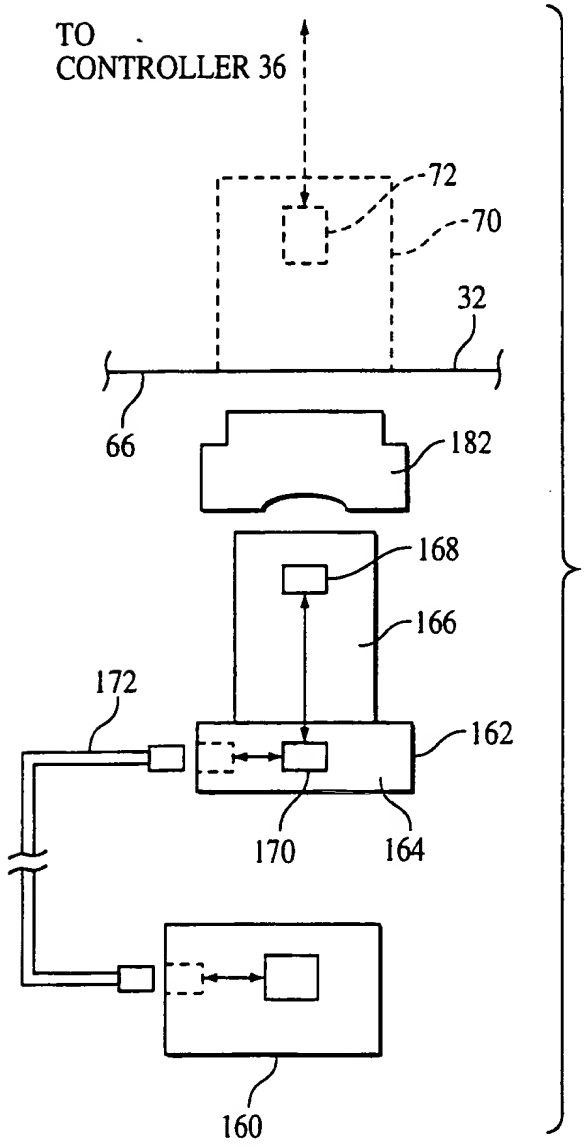

FIG. 7

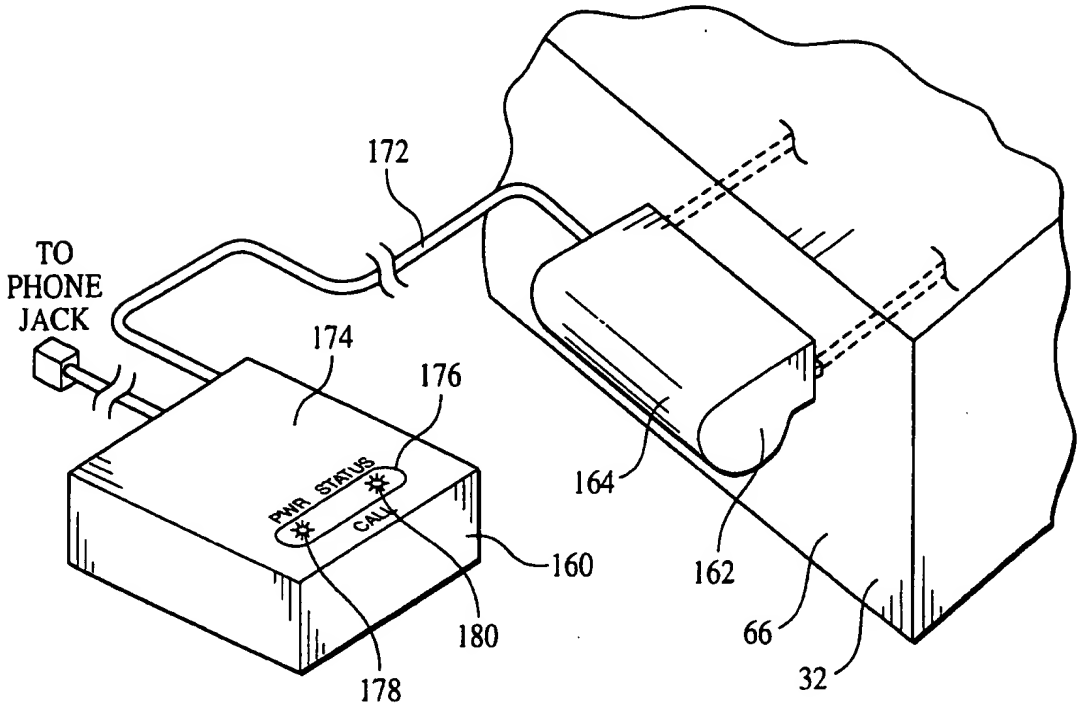
TO
PHONE
JACK
172
174
176
PWR
STATUS
CALL
160
164
162
180
178
66
32

FIG. 8

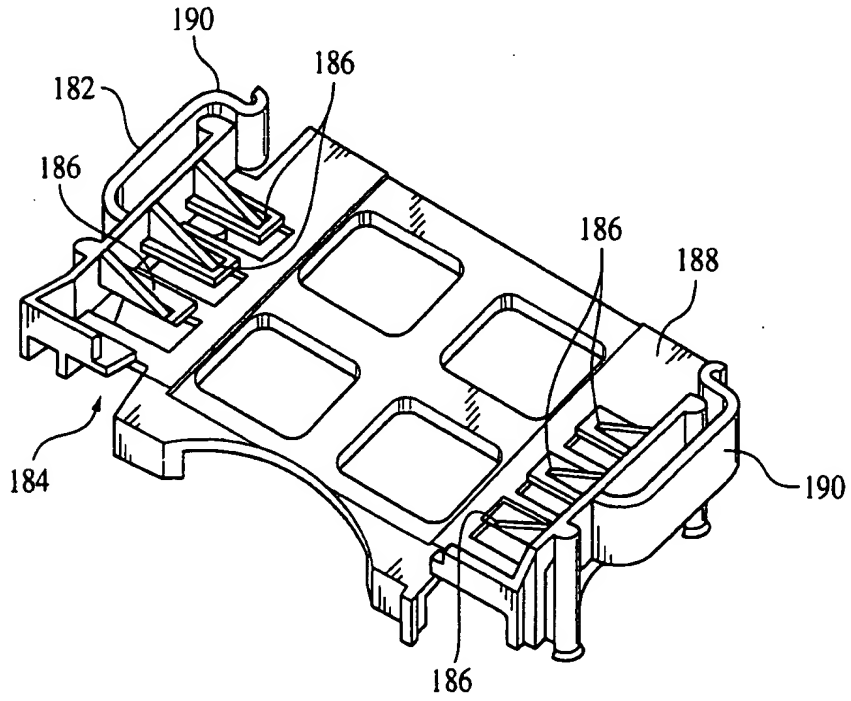
190
182
186
186
186
188
184
190
186

FIG. 9